

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P323116

Luminaire Tested: **GAN-SA2B-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323116
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8098 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

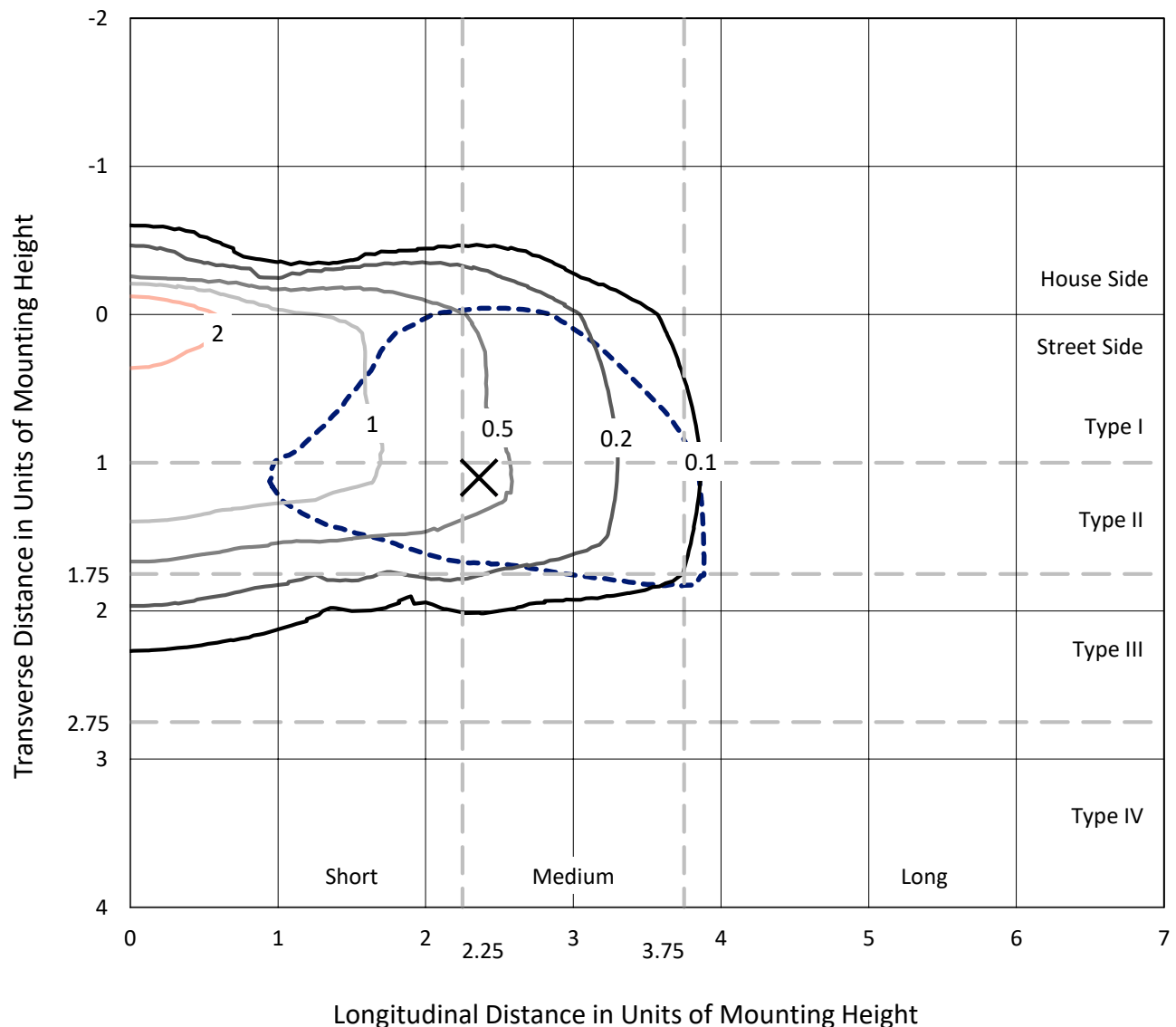
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

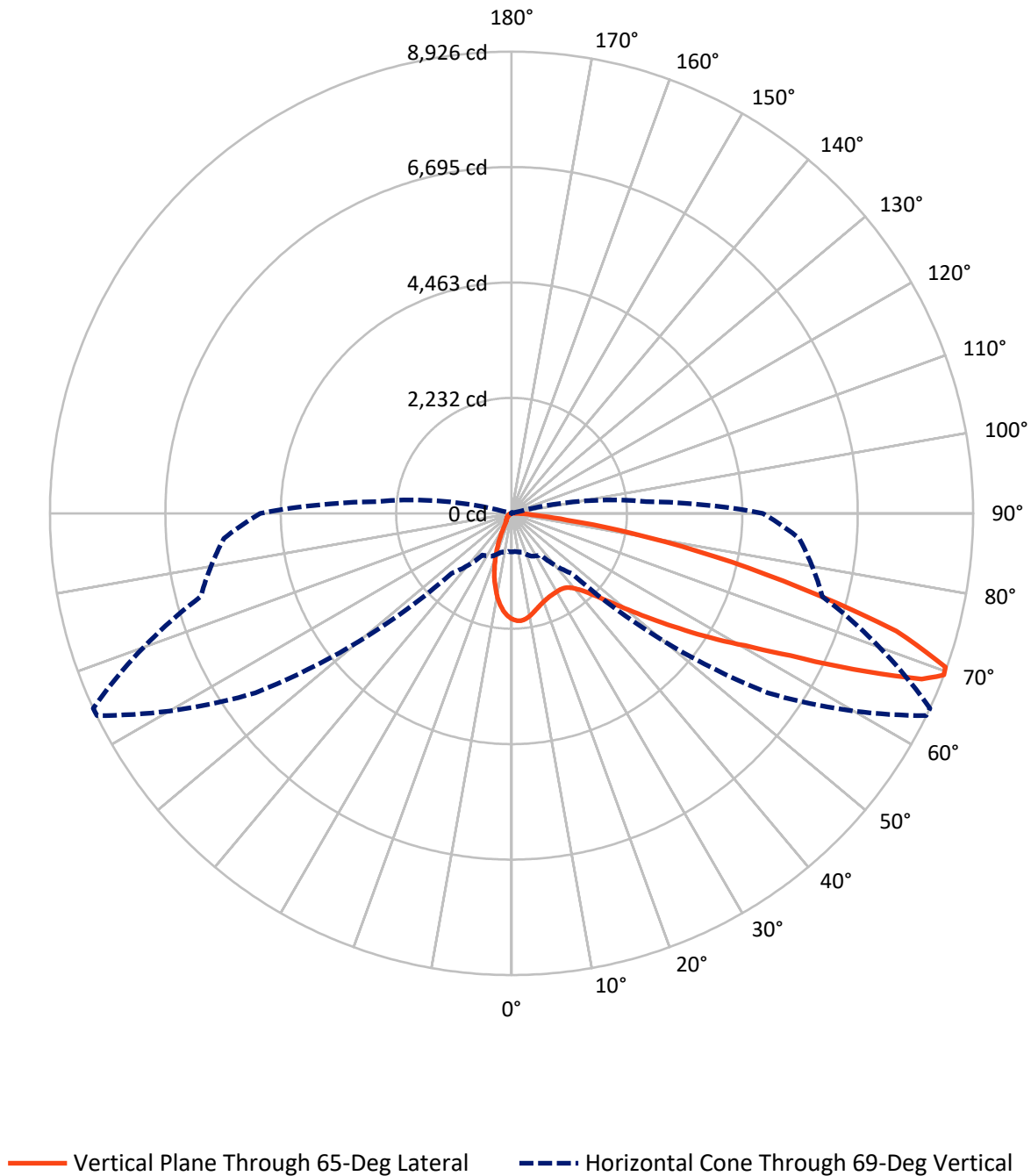
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	954.6	0.0	954.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	7143.4	0.0	7143.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	8098.0	0.0	8098.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.1	2.1
10°-20°	374.6	4.6
20°-30°	518.8	6.4
30°-40°	723.4	8.9
40°-50°	1124.4	13.9
50°-60°	1805.1	22.3
60°-70°	2041.9	25.2
70°-80°	1199.2	14.8
80°-90°	139.5	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8098.0	100.0
0°-180°	8098.0	100.0

Coefficient of Utilization



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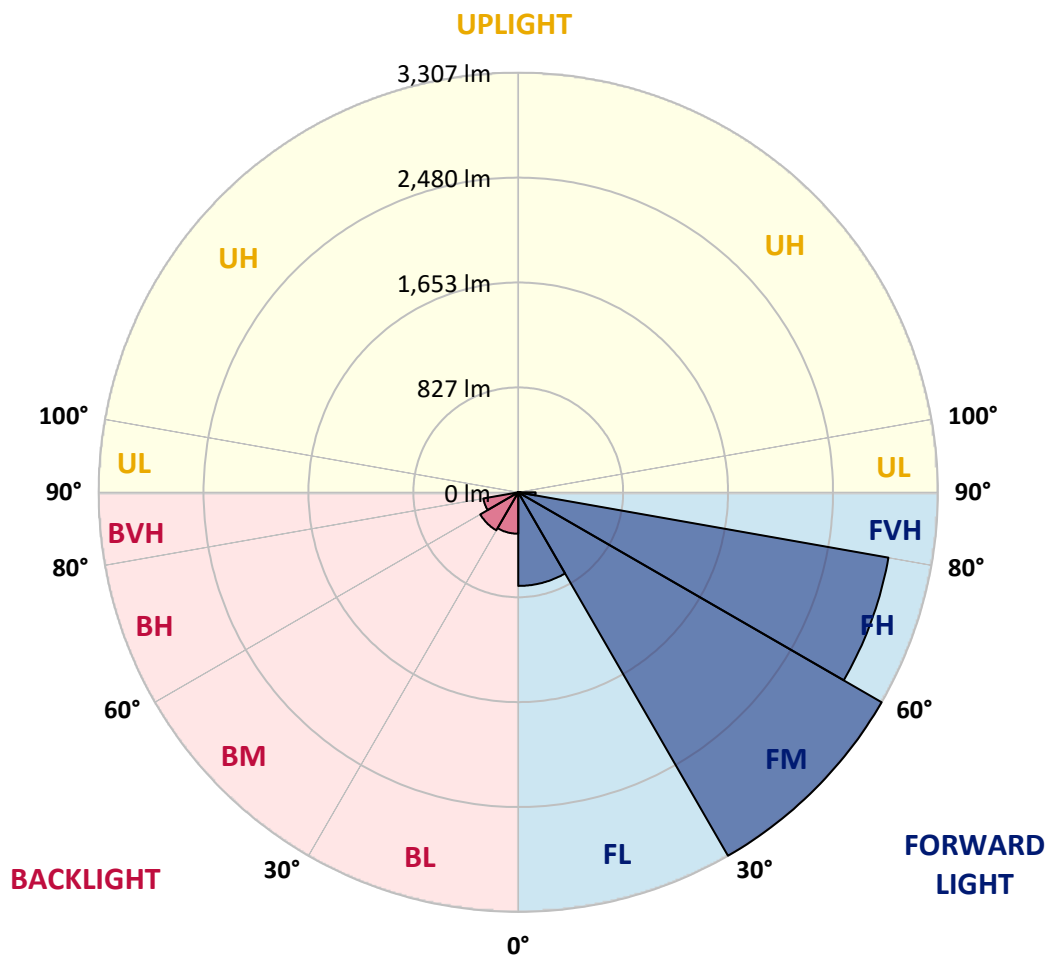
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	737.9	9.1			
FM	(30°-60°)	3307.0	40.8			
FH	(60°-80°)	2962.2	36.6			G2/5000
FVH	(80°-90°)	136.4	1.7			G2/225
BL	(0°-30°)	326.6	4.0	B1/500		
BM	(30°-60°)	345.9	4.3	B1/1000		
BH	(60°-80°)	278.9	3.4	B1/500		G1/500
BVH	(80°-90°)	3.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4
2.5°	2064.5	2059.4	2063.5	2072.4	2076.9	2076.9	2080.3	2076.2	2077.6	2067.6	2053.2
5°	1935.4	1927.5	1938.8	1963.8	1994.6	2021.0	2060.1	2080.6	2082.7	2083.0	2066.3
7.5°	1796.2	1789.0	1805.8	1835.3	1875.0	1924.0	1992.2	2051.9	2055.3	2087.5	2075.2
10°	1683.2	1678.0	1697.5	1729.1	1775.7	1830.5	1914.1	1997.0	2007.0	2078.2	2073.8
12.5°	1593.4	1589.3	1607.8	1644.1	1691.7	1752.4	1839.8	1936.0	1949.4	2057.3	2066.9
15°	1527.9	1527.2	1542.7	1577.6	1630.4	1686.9	1776.4	1879.5	1894.9	2034.7	2065.9
17.5°	1493.7	1494.7	1506.0	1535.8	1581.0	1637.2	1722.9	1831.9	1848.7	2014.5	2071.1
20°	1490.2	1491.3	1497.4	1514.2	1550.9	1600.6	1679.4	1791.8	1809.3	1999.4	2079.3
22.5°	1520.4	1519.7	1521.4	1519.7	1540.3	1578.0	1650.6	1760.9	1781.2	1989.5	2085.8
25°	1578.3	1577.3	1576.6	1563.9	1550.2	1570.4	1638.6	1743.5	1762.7	1982.3	2089.6
27.5°	1658.8	1658.1	1657.1	1636.2	1595.1	1582.4	1640.0	1737.0	1753.1	1976.5	2088.9
30°	1764.7	1769.5	1768.1	1739.0	1674.9	1619.1	1654.4	1733.5	1747.6	1965.2	2081.7
32.5°	1889.1	1898.7	1906.2	1875.0	1794.9	1691.7	1687.6	1737.3	1747.6	1956.6	2068.7
35°	2018.3	2030.6	2058.4	2047.4	1941.9	1801.0	1744.8	1759.9	1768.5	1961.4	2062.5
37.5°	2145.4	2160.1	2220.5	2252.3	2134.4	1945.6	1833.9	1815.8	1820.2	1990.5	2069.3
40°	2293.1	2315.4	2406.9	2458.3	2364.4	2139.2	1967.2	1911.7	1913.4	2054.6	2101.2
42.5°	2487.0	2510.0	2609.0	2689.6	2623.4	2383.9	2148.1	2058.4	2056.7	2174.5	2176.2
45°	2723.5	2747.5	2849.9	2939.4	2909.5	2673.8	2379.8	2272.5	2270.5	2363.7	2318.5
47.5°	2991.4	3015.1	3106.6	3198.8	3231.0	3012.3	2674.8	2564.8	2560.0	2626.5	2538.1
50°	3221.4	3236.8	3321.1	3445.1	3590.4	3428.3	3041.8	2935.9	2930.8	2975.7	2860.5
52.5°	3305.0	3313.9	3399.6	3573.3	3935.8	3991.7	3523.9	3387.6	3383.8	3403.3	3289.9
55°	3135.7	3151.8	3257.0	3514.7	4122.9	4628.3	4132.5	3946.8	3918.3	3876.2	3738.8
57.5°	2674.5	2700.2	2813.3	3155.9	4035.5	5133.4	5026.9	4579.3	4537.5	4279.9	4103.7
60°	2003.9	2035.4	2129.3	2499.0	3569.2	5313.3	6004.1	5284.2	5190.0	4601.3	4439.2
62.5°	1375.1	1390.9	1454.6	1695.5	2628.6	5018.6	6821.7	6228.2	6056.2	4950.8	4802.1
65°	1050.3	1055.7	1081.8	1164.7	1565.3	4076.7	7146.9	7473.8	7265.8	5368.8	5178.7
67.5°	846.4	841.9	877.9	996.5	1048.2	2487.0	6767.6	8652.2	8554.9	5927.7	5557.6
69°	746.3	740.2	776.8	914.6	984.5	1644.1	6050.0	8919.8	8926.0	6222.7	5583.7
70°	671.6	675.7	712.1	865.9	962.9	1290.5	5364.7	8851.7	8900.3	6333.1	5427.4
72.5°	448.5	459.5	532.5	718.9	925.9	976.6	3239.2	7595.8	7782.9	6084.7	4656.4
75°	252.9	261.1	347.8	542.1	872.4	930.0	1710.9	5596.0	5776.9	5088.2	3590.8
77.5°	124.0	128.5	196.7	349.9	729.5	886.1	970.4	3801.2	4007.8	3321.1	2031.0
80°	52.4	54.8	98.3	215.9	521.5	845.7	720.6	2339.4	2365.1	1301.1	541.1
82.5°	20.2	20.9	41.5	134.7	331.4	659.3	602.7	1109.2	1082.5	245.0	123.4
85°	2.4	2.7	15.1	80.9	184.4	339.2	489.7	478.0	442.4	48.7	63.4
87.5°	0.0	0.0	1.0	24.7	54.8	159.0	254.6	198.4	178.9	15.8	32.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4
2.5°	2041.2	2037.8	2019.3	1992.6	1967.2	1935.7	1905.5	1887.4	1873.0	1863.4	1874.7
5°	2046.7	2031.6	1975.4	1903.5	1832.9	1753.4	1679.4	1616.7	1592.0	1564.6	1576.9
7.5°	2045.0	2016.6	1915.5	1787.3	1657.8	1523.8	1397.0	1299.4	1248.7	1199.0	1211.7
10°	2036.4	1988.5	1835.3	1645.5	1451.5	1258.9	1079.0	942.3	865.9	796.7	806.6
12.5°	2017.6	1950.8	1740.7	1483.0	1223.6	969.7	759.0	583.9	490.0	448.5	453.7
15°	2006.3	1914.1	1640.7	1318.6	980.4	675.4	464.0	345.1	302.2	288.5	290.2
17.5°	2000.8	1878.8	1537.2	1130.4	731.6	430.0	299.8	264.5	255.3	252.9	253.6
20°	1995.3	1843.2	1430.6	944.4	504.1	289.2	246.4	236.1	232.7	229.6	230.3
22.5°	1986.1	1808.9	1316.2	755.9	339.9	234.7	222.0	212.1	204.9	201.1	201.8
25°	1974.8	1772.9	1199.3	563.0	248.1	209.4	197.4	183.3	174.8	167.9	168.2
27.5°	1956.6	1728.7	1078.7	409.8	208.3	187.4	171.3	155.9	141.5	133.6	133.6
30°	1931.2	1678.7	944.7	293.3	186.8	165.8	146.3	127.1	111.7	104.5	103.8
32.5°	1903.1	1626.6	809.4	222.4	169.6	145.6	123.4	103.1	89.4	83.6	83.3
35°	1879.2	1570.4	674.4	186.4	152.5	126.1	101.8	84.6	73.7	68.9	68.5
37.5°	1863.7	1514.2	542.8	166.5	137.1	107.9	85.3	69.9	62.0	58.3	57.9
40°	1861.3	1472.4	422.5	151.5	122.7	91.8	71.3	59.3	52.1	48.0	47.6
42.5°	1892.5	1448.4	324.2	138.8	107.9	77.8	60.7	50.7	43.2	39.1	38.7
45°	1974.4	1456.0	249.5	127.5	93.2	65.8	51.4	42.1	35.3	32.2	31.5
47.5°	2123.8	1508.1	198.4	116.2	79.2	55.9	43.9	35.0	29.1	26.0	25.7
50°	2389.7	1630.4	165.8	103.8	66.1	47.6	36.3	28.4	23.6	20.9	20.6
52.5°	2742.7	1848.3	148.0	91.8	54.8	40.4	29.8	22.6	18.5	16.4	16.1
55°	3131.9	2112.2	136.4	78.8	44.9	33.6	23.6	17.8	14.4	12.7	12.0
57.5°	3511.9	2340.7	125.4	66.1	37.4	27.4	18.8	14.0	11.3	9.6	9.3
60°	3861.1	2550.8	112.7	53.1	30.5	21.6	14.7	11.0	8.9	7.2	7.2
62.5°	4235.0	2713.2	95.3	41.5	25.0	16.4	12.0	9.9	7.2	6.2	5.8
65°	4631.1	2833.8	74.7	32.2	19.5	12.3	9.9	10.3	5.8	4.5	4.1
67.5°	4923.7	2809.8	55.2	25.4	15.1	9.6	9.6	11.0	5.1	3.4	3.1
69°	4859.3	2614.9	46.3	21.9	13.0	8.2	8.9	11.0	4.8	3.1	2.7
70°	4672.5	2399.0	40.8	19.5	11.7	7.5	8.6	10.6	4.5	3.1	2.7
72.5°	3891.3	1806.9	31.9	14.7	9.3	6.2	7.2	9.3	4.5	3.1	2.4
75°	2927.0	1156.5	24.3	10.6	6.9	4.8	5.5	6.9	4.5	2.7	2.4
77.5°	1592.7	417.0	17.5	7.2	4.8	3.8	3.8	5.1	4.1	2.1	1.4
80°	409.5	104.9	11.0	4.8	3.8	2.7	2.4	3.4	2.4	0.3	0.0
82.5°	101.1	23.6	5.8	3.4	2.7	1.0	1.0	1.7	1.0	0.0	0.0
85°	55.5	11.7	3.8	2.4	1.4	0.0	0.0	0.3	0.0	0.0	0.0
87.5°	28.4	3.4	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)